

**Session Program**

**8-9 Nov 2018**

**TTC/ARIES topical workshop on flux trapping  
and magnetic shielding**

***Flux expulsion efficiency***

CERN, 31/3-004 - IT Amphitheatre

# Thursday 8 November

11:25

## Flux expulsion efficiency: Part 1

**Session** | **Location:** CERN, 31/3-004 - IT Amphitheatre | **Conveners:** Julia Koeszegi, David Longuevergne, Kensei Umemori

### 11:25-11:50 Review of magnetic flux expulsion

**Speaker**  
Sam Posen

11:50-12:05

### Can the present techniques for cavity flux expulsion efficiency measurements be unified?

**Speakers**  
Rongli Geng, Shichun Huang

### 12:05-12:20 Efficiency measurements with MO, AMR, and Fluxgates

**Speaker**  
Julia-Marie Koeszegi

### 12:20-12:30 Discussion

12:30

14:00

## Flux expulsion efficiency: Part 2

**Session** | **Location:** CERN, 31/3-004 - IT Amphitheatre | **Conveners:** Julia Koeszegi, David Longuevergne, Kensei Umemori

### 14:00-14:10 Microscopic investigation of flux expulsion at FNAL

**Speaker**  
Martina Martinello

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### 14:10-14:20 Study on temperature dependent EBSD measurements

**Speaker**  
Dr Kensei Umemori

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### 14:20-14:30 Update on Experimental Study of Flux Expulsion and Cold Work

**Speaker**  
Sam Posen

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### 14:30-14:40 Discussion on the impact of material on expulsion efficiency

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### 14:40-14:50 Flux expulsion experiments with a 704 MHz elliptical cavity

**Speaker**

Anton Evgeniev Ivanov

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14:50–15:00

**Flux expulsion experiments with QWR at RIKEN****Speaker**

Kensei Umemori

**Location**

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15:00–15:10

**Discussion on non 1.3 GHz experiments****Location**

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15:10–15:20

**LCLS-II Cryomodule expulsion****Speaker**

Sam Posen

**Location**

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15:20–15:30

**LCLS-II TD material batch study on flux expulsion****Speaker**

Ari Palczewski

**Location**

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15:30–15:40

**Status of flux trapping related activities at DESY****Speakers**

Detlef Reschke, Joern Schaffran, Marc Wenskat

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15:40–15:50

**Discussion on 1.3 GHz experiments****Location**

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15:50

16:10

**Flux expulsion efficiency: Part 3****Session** | **Location:** CERN, 31/3-004 - IT Amphitheatre | **Conveners:**

Kensei Umemori, Julia Koeszegi, David Longuevergne

16:10–16:20

**Angular dependency of flux expulsion****Speaker**

Felix Kramer

16:20–16:30

**How is trapped flux affected by the cavity geometry****Speaker**

David Longuevergne

16:30–16:40

**Discussion on geometrical aspects**

16:40-17:05

**Pinning studies for SC magnets and insights for SRF**

**Speaker**

Prof. Damian Hampshire

17:05-17:25

**General discussion on possible future experiments**

18:00